

## **Who is most at risk of HIV infection? Detailed Data Tables and Technical Notes**

### **Technical Notes:**

#### ***Background on HIV reporting system***

On January 1, 1999 the Massachusetts Department of Public Health (MDPH) started requiring clinical providers to submit case report forms with demographic and risk information about individuals diagnosed with HIV infection, as they had been doing for AIDS since 1983. Existing cases of diagnosed HIV infection through 1998 also were to be reported by the end of 1999. These cases are labeled “pre-1999” in the following analyses. New as well as previously diagnosed HIV infections continue to be reported. When comparing pre-1999 HIV diagnoses to HIV diagnoses from 1999-2003, one should consider the differences in HIV reporting requirements for these two time periods. Since HIV diagnoses were not reported at the time of diagnosis prior to 1999 and clinical providers were given a relatively short time frame within which to report all prevalent HIV cases, the pre-1999 data are considered less complete than data reported after 1999. Additionally, pre-1999 HIV diagnoses do not include people who were diagnosed with HIV infection and died before 1999 without being reported with AIDS, nor do they include individuals who were no longer receiving HIV-related health care in Massachusetts at the point when HIV (non-AIDS) reporting became mandatory.

#### ***Caveats of the data***

While trends in HIV diagnosis are our best indicator for those who are most at risk of HIV infection, HIV surveillance reflects the incidence of diagnoses among people who are in care and not the actual incidence of new infections. Like AIDS diagnoses, HIV diagnoses are not a direct measure of incidence of infection itself. People may be living with HIV for many years prior to being tested and seeking care, at which point the case is considered a “diagnosis” and reported to the MDPH HIV/AIDS Surveillance Program. Furthermore, as with early data for AIDS cases, the data from the first few years of a new reporting system can be unstable, and caution should be used in interpretation. During the time a data reporting system is in its infancy, there is a greater likelihood that fluctuations in data are attributable to reporting patterns and clinician education efforts rather than actual changes in disease incidence.

Additionally, one must consider the effects of reporting lag when reviewing the preliminary 2003 HIV infection diagnoses. Although Massachusetts regulations require providers to submit HIV case reports in a timely fashion, many 2003 HIV diagnoses will be reported to the surveillance program after the release of this Epidemiologic Profile. While reliable estimates are not yet available for the reporting lag of HIV diagnoses, 42% of AIDS diagnoses from 1992-2001 were reported more than 6 months after diagnosis. If one assumes that the reporting lag of HIV diagnoses is similar to that of AIDS diagnoses, it suggests that the 2003 HIV data presented in this report may represent a substantial undercount. Therefore, although the data that follow report a

decline in the number of HIV diagnoses in the past year, it is likely that the true incidence of HIV diagnosis has reached a plateau or perhaps an increase. Analyses suggest that the distribution of HIV diagnoses by race/ethnicity, gender and exposure mode for cases reported more than 6 months after diagnosis is not substantially different than the distribution of HIV cases reported within 6 months.

**Table 3.1 People Diagnosed with HIV Infection by Gender and Year of Diagnosis: MA, Before 1999, 1999 - 2003<sup>1</sup>**

	Male		Female		Total
	N	%	N	%	
< 1999	15,604	77%	4,554	23%	20,158
1999	901	70%	394	30%	1,295
2000	789	70%	334	30%	1,123
2001	675	71%	280	29%	955
2002	678	68%	315	32%	993
2003 <sup>2</sup>	523	70%	219	30%	742

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> 2003 Data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.2 People Diagnosed with HIV Infection by Race/Ethnicity and Year of Diagnosis: MA, Before 1999, 1999-2003<sup>1</sup>**

	White NH		Black NH		Hispanic		API		AI/AN		Total <sup>2</sup>
	N	%	N	%	N	%	N	%	N	%	
< 1999	11,197	56%	4,693	23%	4,099	20%	98	<1%	25	<1%	20,158
1999	553	43%	383	30%	322	25%	20	2%	3	<1%	1,295
2000	445	40%	385	34%	261	23%	25	2%	2	<1%	1,123
2001	393	41%	311	33%	219	23%	27	3%	2	<1%	955
2002	388	39%	340	34%	230	23%	20	2%	2	<1%	993
2003 <sup>3</sup>	304	41%	239	32%	178	24%	11	1%	0	0%	742

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Totals include people with unspecified race/ethnicity

<sup>3</sup> 2003 Data are preliminary

NH = Non-Hispanic, API = Asian/Pacific Islander, AI/AN = American Indian/Alaskan Native

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.3 Males Diagnosed with HIV Infection by Race/Ethnicity and Year of Diagnosis: MA, Before 1999, 1999-2003<sup>1</sup>**

	White NH		Black NH		Hispanic		API		AI/AN		Total <sup>2</sup>
	N	%	N	%	N	%	N	%	N	%	
< 1999	9,447	61%	3,132	20%	2,890	19%	84	1%	19	0%	<b>15,604</b>
1999	430	48%	226	25%	223	25%	12	1%	1	<1%	<b>901</b>
2000	360	46%	218	28%	184	23%	23	3%	0	0%	<b>789</b>
2001	325	48%	173	26%	153	23%	21	3%	1	<1%	<b>675</b>
2002	318	47%	179	26%	156	23%	13	2%	2	<1%	<b>678</b>
2003 <sup>3</sup>	265	51%	128	24%	117	22%	8	2%	0	0%	<b>523</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis  
<sup>2</sup> Totals include people with unspecified race/ethnicity  
<sup>3</sup> 2003 Data are preliminary  
 NH = Non-Hispanic, API = Asian/Pacific Islander, AI/AN = American Indian/Alaskan Native  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.4 Females Diagnosed with HIV Infection by Race/Ethnicity and Year of Diagnosis: MA, Before 1999, 1999-2003<sup>1</sup>**

	White NH		Black NH		Hispanic		API		AI/AN		Total <sup>2</sup>
	N	%	N	%	N	%	N	%	N	%	
< 1999	1,750	38%	1,561	34%	1,209	27%	14	<1%	6	<1%	<b>4,554</b>
1999	123	31%	157	40%	99	25%	8	2%	2	1%	<b>394</b>
2000	85	25%	167	50%	77	23%	2	1%	2	1%	<b>334</b>
2001	68	24%	138	49%	66	24%	6	2%	1	<1%	<b>280</b>
2002	70	22%	161	51%	74	23%	7	2%	0	0%	<b>315</b>
2003 <sup>3</sup>	39	18%	111	51%	61	28%	3	1%	0	0%	<b>219</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis  
<sup>2</sup> Totals include people with unspecified race/ethnicity  
<sup>3</sup> 2003 Data are preliminary  
 NH = Non-Hispanic, API = Asian/Pacific Islander, AI/AN = American Indian/Alaskan Native  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.5 People Diagnosed with HIV Infection by Place of Birth and Year of Diagnosis: MA, Before 1999, 1999 – 2003<sup>1</sup>**

	US		Puerto Rico/ US Dependency <sup>2</sup>		Non-US		Total
	N	%	N	%	N	%	
< 1999	15,690	78%	2,403	12%	2,065	10%	<b>20,158</b>
1999	897	69%	161	12%	237	18%	<b>1,295</b>
2000	719	64%	120	11%	284	25%	<b>1,123</b>
2001	603	63%	100	10%	252	26%	<b>955</b>
2002	589	59%	97	10%	307	31%	<b>993</b>
2003 <sup>3</sup>	463	62%	65	9%	214	29%	<b>742</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> 95% of people diagnosed with HIV infection in MA who were born in a US Dependency were born in Puerto Rico<sup>3</sup> 2003 Data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.6 Males Diagnosed with HIV Infection by Place of Birth and Year of Diagnosis: MA, Before 1999, 1999 – 2003<sup>1</sup>**

	US		Puerto Rico/US Dependency <sup>2</sup>		Non-US		Total
	N	%	N	%	N	%	
< 1999	12,452	80%	1,716	11%	1436	9%	<b>15,604</b>
1999	663	74%	115	13%	123	14%	<b>901</b>
2000	533	68%	90	11%	166	21%	<b>789</b>
2001	450	67%	68	10%	157	23%	<b>675</b>
2002	439	65%	67	10%	172	25%	<b>678</b>
2003 <sup>3</sup>	363	69%	39	7%	121	23%	<b>523</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> 95% of people diagnosed with HIV infection in MA who were born in a US Dependency were born in Puerto Rico<sup>3</sup> 2003 Data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.7 Females Diagnosed with HIV Infection by Place of Birth and Year of Diagnosis: MA, Before 1999, 1999 – 2003<sup>1</sup>**

	US		Puerto Rico/US Dependency <sup>2</sup>		Non-US		Total
	N	%	N	%	N	%	
< 1999	3,238	71%	687	15%	629	14%	<b>4,554</b>
1999	234	59%	46	12%	114	29%	<b>394</b>
2000	186	56%	30	9%	118	35%	<b>334</b>
2001	153	55%	32	11%	95	34%	<b>280</b>
2002	150	48%	30	10%	135	43%	<b>315</b>
2003 <sup>2</sup>	100	46%	26	12%	93	42%	<b>219</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> 95% of people diagnosed with HIV infection in MA who were born in a US Dependency were born in Puerto Rico<sup>3</sup> 2003 Data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.8 People Diagnosed with HIV Infection by Exposure Mode<sup>1</sup> and Year of Diagnosis: MA, Before 1999, 1999- 2003<sup>2</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Pres. HTSX <sup>3</sup>		Unde- termined <sup>4</sup>		Total <sup>5</sup>
	N	%	N	%	N	%	N	%	N	%	N	%	
<1999	7,572	38%	7,125	35%	825	4%	2,010	10%	1,362	7%	639	3%	<b>20,158</b>
1999	369	28%	379	29%	29	2%	191	15%	259	20%	63	5%	<b>1,295</b>
2000	343	31%	238	21%	20	2%	182	16%	260	23%	70	6%	<b>1,123</b>
2001	297	31%	191	20%	22	2%	144	15%	218	23%	77	8%	<b>955</b>
2002	308	31%	171	17%	21	2%	159	16%	243	24%	89	9%	<b>993</b>
2003 <sup>6</sup>	262	35%	107	14%	19	3%	85	11%	175	24%	94	13%	<b>742</b>

<sup>1</sup> See the Glossary for and explanation of Exposure Mode categories<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>3</sup> Heterosexual sex with partners with unknown risk and HIV status<sup>4</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up<sup>5</sup> Totals include Blood/Blood Products, Occupational, and Pediatric exposure modes<sup>6</sup> 2003 Data are preliminary

MSM = male-to-male sex; IDU = injection drug use; MSM/IDU = male-to-male sex and injection drug use; HTSX = heterosexual sex; Pres. HTSX = presumed heterosexual; NIR = No Identified Risk

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.9 Males Diagnosed with HIV Infection by Exposure Mode<sup>1</sup> and Year of Diagnosis: MA, Before 1999, 1999-2003<sup>2</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>3</sup>		Undeter- mined <sup>4</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	7,572	49%	4,996	32%	825	5%	563	4%	400	3%	745	5%	503	3%	15,604
1999	369	41%	262	29%	29	3%	64	7%	3	<1%	127	14%	47	5%	901
2000	343	43%	163	21%	20	3%	64	8%	8	1%	134	17%	57	7%	789
2001	297	44%	139	21%	22	3%	58	9%	2	<1%	108	16%	49	7%	675
2002	308	45%	121	18%	21	3%	54	8%	2	<1%	117	17%	55	8%	678
2003 <sup>5</sup>	262	50%	76	15%	19	4%	38	7%	0	0%	69	13%	59	11%	523

<sup>1</sup> See the Glossary for an explanation of Exposure Mode categories. MSM = male-to-male sex; IDU = injection drug use; MSM/IDU = male-to-male sex and injection drug use; HTSX = heterosexual sex; Pres. HTSX = presumed heterosexual; NIR = No Identified Risk

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>3</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>4</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>5</sup> 2003 Data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

*Note: The category of “presumed heterosexual” is used in Massachusetts to re-assign people who are reported with no identified risk but who are known not to have reported any other risks except heterosexual sex with a partner of unknown HIV status or risk. Massachusetts uses this category to distinguish these cases from other undetermined cases about which we know less. Nationally, the Centers for Disease Control and Prevention categorizes “presumed heterosexual” cases as “no identified risk”. Nationally, the Centers for Disease Control and Prevention categorizes these cases as “no identified risk”. As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual as it is still not clear what the exposure risk is for people in this category. Although a person may not report other risk behaviors such as injection drug use or male-to-male sex to his/her health care provider, it does not necessarily mean that he/she has not engaged in them. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a tenuous patient-provider relationship or the stigma associated with drug use and male-to-male sex.*

**Table 3.10 Females Diagnosed with HIV Infection by Exposure Mode<sup>1</sup> and Year of Diagnosis: MA, Before 1999, 1999-2003<sup>2</sup>**

	IDU		HTSX		Other		Pres. HTSX <sup>3</sup>		Undetermined <sup>4</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N
<1999	2,129	47%	1,447	32%	225	5%	617	14%	136	3%	4,554
1999	117	30%	127	32%	2	1%	132	34%	16	4%	394
2000	75	22%	118	35%	2	1%	126	38%	13	4%	334
2001	52	19%	86	31%	4	1%	110	39%	28	10%	280
2002	50	16%	105	33%	0	0%	126	40%	34	11%	315
2003 <sup>5</sup>	31	14%	47	21%	0	0%	106	48%	35	16%	219

<sup>1</sup> See the Glossary for an explanation of Exposure Mode categories. MSM = male-to-male sex; IDU = injection drug use; MSM/IDU = male-to-male sex and injection drug use; HTSX = heterosexual sex; Pres. HTSX = presumed heterosexual; NIR = No Identified Risk

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>3</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>4</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>5</sup> 2003 Data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.11 Infection Status of Children Born In MA Exposed to HIV Perinatally and Enrolled in PSD by Year of Birth: MA, 1989-2002**

Year:	Infected		Uninfected		Indeterminate		Total Exposures
	N	%	N	%	N	%	N
1989	44	44%	51	50%	6	6%	101
1990	32	32%	67	66%	2	2%	101
1991	36	30%	77	65%	6	5%	119
1992	34	26%	87	67%	8	6%	129
1993	24	24%	70	71%	4	4%	98
1994	21	22%	73	77%	1	1%	95
1995	21	21%	78	76%	3	3%	102
1996	9	14%	52	80%	4	6%	65
1997	7	9%	66	84%	6	8%	79
1998	7	8%	76	89%	2	2%	85
1999	7	9%	69	88%	2	3%	78
2000	6	7%	71	81%	11	13%	88
2001	0	0%	57	86%	9	14%	66
2002	1	2%	49	74%	16	24%	66

Data Source: Pediatric Spectrum of Disease Project (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.12 Maternal Characteristics<sup>1</sup> of HIV Positive Women Known to Have Given Birth: MA<sup>2</sup>, 2001 - 2002<sup>3</sup>**

<b>Mother's Risk:</b>	<b>N</b>	<b>%</b>
Injection Drug Use	26	20%
Sex with a Male Injection Drug User	9	7%
Sex with a Male Living with HIV/AIDS	23	17%
Transfusion	2	1%
No Identified Risk	72	55%
<b>Maternal Age:</b>	<b>N</b>	<b>%</b>
<20	2	1%
20-34	90	68%
35+	29	22%
Unknown age at delivery	11	8%
<b>Maternal Race/Ethnicity:</b>	<b>N</b>	<b>%</b>
White Non-Hispanic	29	22%
Black Non-Hispanic	48	36%
Hispanic	46	35%
Other/Unknown	9	7%
<b>Maternal Birthplace:</b>	<b>N</b>	<b>%</b>
US	60	45%
US Dependency	15	11%
Non-US <sup>4</sup>	39	30%
Unknown	18	14%
<b>Total (2 Years)</b>	<b>132</b>	

<sup>1</sup> Data represents mothers of children with perinatal exposure to HIV only (not children exposed from other sources i.e. hemophilia, transfusion, etc.)

<sup>2</sup> Births in MA only

<sup>3</sup> Two years of data have been combined to provide a more stable distribution

<sup>4</sup> Includes Brazil, Cambodia, Cameroon, Cape Verde Island, Dominican Republic, Haiti, Honduras, El Salvador, Ghana, Guinea-Bissau, India, Kenya, Nigeria, Peru, Portugal, Somali Republic, South Africa, South Korea, Tanzania, Uganda, Zaire, and Zimbabwe

Data Source: Pediatric Spectrum of Disease (PSD), Data as of 7/1/2003



<b>Table 3.13 Characteristics of Births to HIV Positive Mothers<sup>1</sup>: MA 1991,1996 and 2001</b>						
<b>Year of Birth:</b>	<b>1991</b>		<b>1996</b>		<b>2001</b>	
Total Number of Births to HIV-Infected Mothers:	115		67		66	
<b>When Mother's HIV Infection was Diagnosed:</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Before Child's Birth	89	77%	57	85%	65	98%
After Child's Birth	22	19%	10	15%	1	2%
Unknown	4	3%	0	0%	0	0%
<b>Anti-Retroviral Therapy<sup>2</sup> for Mothers Diagnosed with HIV Infection Before Child's Birth:</b>	<b>N</b>	<b>%</b>	<b>N=57</b>	<b>%</b>	<b>N=65</b>	<b>%</b>
Yes	-	-	51	89%	65	100%
No	-	-	6	11%	0	0%
Unknown	-	-	0	0%	0	0%
<b>Mode of Delivery for Mothers Diagnosed with HIV Infection Before Child's Birth:</b>	<b>N=89</b>	<b>%</b>	<b>N=57</b>	<b>%</b>	<b>N=65</b>	<b>%</b>
Caesarian Section	17	19%	9	16%	24	37%
Vaginal	66	74%	48	84%	40	62%
Unknown	6	7%	0	0%	1	2%
<b>Infection Status of Child:</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Infected	32	28%	8	12%	0%	0%
Not Infected	78	68%	55	82%	57	86%
Unknown	5	4%	4	6%	9	14%
<sup>1</sup> Population includes only mothers of children with diagnosed HIV infection or exposure. MA births only <sup>2</sup> This includes any therapy during pregnancy and/or during labor and delivery. No numbers are reported for 1991 because the value of antiretroviral treatment during pregnancy was still under study at this time Data Source: Pediatric Spectrum of Disease (PSD), Data as of 07/01/2003						

**Table 3.14 People Diagnosed with HIV Infection by Age at Diagnosis: MA, 1999-2003<sup>1</sup>**

	<b>&lt;1999</b>		<b>1999</b>		<b>2000</b>		<b>2001</b>		<b>2002</b>		<b>2003<sup>2</sup></b>	
Age in years	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Under 13 <sup>3</sup>	225	1%	1	0%	1	0%	2	0%	1	0%	0	0%
13 to 19	247	1%	19	1%	26	2%	15	2%	18	2%	9	1%
20 to 24	1,342	7%	60	5%	60	5%	42	4%	66	7%	40	5%
25 to 29	3,562	18%	139	11%	138	12%	106	11%	118	12%	78	11%
30 to 34	5,059	25%	283	22%	199	18%	191	20%	177	18%	132	18%
35 to 39	4,357	22%	303	23%	277	25%	221	23%	210	21%	166	22%
40 to 44	2,787	14%	232	18%	190	17%	167	17%	179	18%	133	18%
45 to 49	1,368	7%	139	11%	105	9%	123	13%	108	11%	95	13%
50+	1,211	6%	119	9%	127	11%	88	9%	116	12%	89	12%
<b>Total</b>	<b>20,158</b>	<b>100%</b>	<b>1,295</b>	<b>100%</b>	<b>1,123</b>	<b>100%</b>	<b>955</b>	<b>100%</b>	<b>993</b>	<b>100%</b>	<b>742</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> 2003 Data are preliminary<sup>3</sup> Includes AIDS cases diagnosed under age 13 years only, data on cases of HIV (non-AIDS) diagnosed under age 13 years are not included here. For more information contact the Pediatric Spectrum of Disease Project, MDPH Bureau of Communicable Disease Control.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.15 Males Diagnosed with HIV Infection by Age at Diagnosis: MA, 1999-2003<sup>1</sup>**

	<b>&lt;1999</b>		<b>1999</b>		<b>2000</b>		<b>2001</b>		<b>2002</b>		<b>2003<sup>2</sup></b>	
Age in years	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Under 13 <sup>3</sup>	123	1%	0	0%	1	0%	1	0%	1	0%	0	0%
13 to 19	152	1%	6	1%	12	2%	10	1%	9	1%	6	1%
20 to 24	851	5%	35	4%	29	4%	18	3%	39	6%	26	5%
25 to 29	2,633	17%	77	9%	83	11%	73	11%	69	10%	47	9%
30 to 34	3,874	25%	208	23%	142	18%	128	19%	117	17%	92	18%
35 to 39	3,524	23%	220	24%	195	25%	172	25%	145	21%	126	24%
40 to 44	2,327	15%	173	19%	141	18%	117	17%	132	19%	97	19%
45 to 49	1,139	7%	99	11%	83	11%	89	13%	76	11%	61	12%
50+	981	6%	83	9%	103	13%	67	10%	90	13%	68	13%
<b>Total</b>	<b>15,604</b>	<b>100%</b>	<b>901</b>	<b>100%</b>	<b>789</b>	<b>100%</b>	<b>675</b>	<b>100%</b>	<b>678</b>	<b>100%</b>	<b>523</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> 2003 Data are preliminary<sup>3</sup> Includes AIDS cases diagnosed under age 13 years only, data on cases of HIV (non-AIDS) diagnosed under age 13 years are not included here. For more information contact the Pediatric Spectrum of Disease Project, MDPH Bureau of Communicable Disease Control.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.16 Females Diagnosed with HIV Infection by Age at Diagnosis: MA, 1999-2003<sup>1</sup>**

	<1999		1999		2000		2001		2002		2003 <sup>2</sup>	
Age in years	N	%	N	%	N	%	N	%	N	%	N	%
Under 13 <sup>3</sup>	102	2%	1	<1%	0	0%	1	<1%	0	0%	0	0%
13 to 19	95	2%	13	3%	14	4%	5	2%	9	3%	3	1%
20 to 24	491	11%	25	6%	31	9%	24	9%	27	9%	14	6%
25 to 29	929	20%	62	16%	55	16%	33	12%	49	16%	31	14%
30 to 34	1,185	26%	75	19%	57	17%	63	23%	60	19%	40	18%
35 to 39	833	18%	83	21%	82	25%	49	18%	65	21%	40	18%
40 to 44	460	10%	59	15%	49	15%	50	18%	47	15%	36	16%
45 to 49	229	5%	40	10%	22	7%	34	12%	32	10%	34	16%
50+	230	5%	36	9%	24	7%	21	8%	26	8%	21	10%
<b>Total</b>	<b>4,554</b>	<b>100%</b>	<b>394</b>	<b>100%</b>	<b>334</b>	<b>100%</b>	<b>280</b>	<b>100%</b>	<b>315</b>	<b>100%</b>	<b>219</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> 2003 Data are preliminary<sup>3</sup> Includes AIDS cases diagnosed under age 13 years only, data on cases of HIV (non-AIDS) diagnosed under age 13 years are not included here. For more information contact the Pediatric Spectrum of Disease Project, MDPH Bureau of Communicable Disease Control.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.17 People Diagnosed with HIV Infection by Health Service Region (HSR)<sup>1</sup>: MA, 1999-2003<sup>2</sup>**

	<1999		1999		2000		2001		2002		2003 <sup>3</sup>	
HSR	N	%	N	%	N	%	N	%	N	%	N	%
Boston	7,021	35%	376	29%	364	32%	298	31%	348	35%	270	36%
Central	1,732	9%	86	7%	84	7%	62	6%	84	8%	65	9%
Metrowest	2,481	12%	156	12%	146	13%	110	12%	139	14%	99	13%
Northeast	2,716	13%	186	14%	148	13%	151	16%	143	14%	107	14%
Southeast	2,846	14%	189	15%	169	15%	160	17%	138	14%	95	13%
Western	2,295	11%	182	14%	147	13%	126	13%	96	10%	83	11%
Prisons <sup>4</sup>	1,057	5%	119	9%	65	6%	48	5%	45	5%	23	3%
<b>Total<sup>5</sup></b>	<b>20,158</b>	<b>100%</b>	<b>1,295</b>	<b>100%</b>	<b>1,123</b>	<b>100%</b>	<b>955</b>	<b>100%</b>	<b>993</b>	<b>100%</b>	<b>742</b>	<b>100%</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence)<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>3</sup> 2003 data are preliminary<sup>4</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility.<sup>5</sup> Totals include 10 people of unknown HSR

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

## People Diagnosed with HIV Infection from 2001-2003

**Table 3.18 People Diagnosed with HIV Infection by Gender and Race/Ethnicity: MA, 2001-2003<sup>1</sup>**

	Male		Female	
Race/Ethnicity:	N	%	N	%
White NH	908	48%	177	22%
Black NH	480	26%	410	50%
Hispanic	426	23%	201	25%
API	42	2%	16	2%
AI/AN	3	<1%	1	<1%
Unknown	17	1%	9	1%
<b>Total</b>	<b>1,876</b>	<b>100%</b>	<b>814</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;

NH = Non-Hispanic, API = Asian/Pacific Islander, AI/AN = American Indian/Alaska Native; Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 7/1/04

**Table 3.19 People Diagnosed with HIV Infection by Gender and Exposure Mode: MA, 2001-2003<sup>1</sup>**

	Male		Female	
Exposure Mode <sup>2</sup> :	N	%	N	%
MSM	867	46%	N/A	N/A
IDU	336	18%	133	16%
MSM/IDU	62	3%	N/A	N/A
HTSX	150	8%	238	29%
Other	4	<1%	4	<1%
Total Undetermined	457	25%	439	54%
• Pres. HTSX <sup>3</sup>	294	16%	342	42%
• Undetermined <sup>4</sup>	163	9%	97	12%
<b>Total</b>	<b>1,876</b>	<b>100%</b>	<b>814</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> See the Glossary for an explanation of exposure mode categories;

<sup>3</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>4</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up; MSM = Male-to-male sex, IDU = Injection Drug Use, HTSX = Heterosexual Sex, Pres. HTSX = Presumed Heterosexual Sex, NIR = No Identified Risk, N/A = Not Applicable; Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.20 People Diagnosed with HIV Infection by Race/Ethnicity<sup>1</sup> and Place of Birth: MA, 2001-2003<sup>2</sup>***Data as of 7/1/04*

	US		Puerto Rico/ US Dependency <sup>3</sup>		Non-US		Total
Race/Ethnicity:	N	%	N	%	N	%	N
White NH	1,002	92%	5	<1%	78	7%	<b>1,085</b>
Black NH	419	47%	1	<1%	470	53%	<b>890</b>
Hispanic	203	32%	256	41%	168	27%	<b>627</b>
API	6	10%	0	0%	52	90%	<b>58</b>

<sup>1</sup> Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers  
<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;  
<sup>3</sup> 94% of people diagnosed with HIV infection from 2001-2003 who were born in a US Dependency were born in Puerto Rico  
 NH = Non-Hispanic, API = Asian/Pacific Islander  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.21 Males Diagnosed with HIV Infection by Race/Ethnicity<sup>1</sup> and Place of Birth: MA, 2001-2003<sup>2</sup>***Data as of 7/1/04*

	US		Puerto Rico/US Dependency <sup>3</sup>		Non-US		Total
Race/Ethnicity:	N	%	N	%	N	%	N
White NH	839	92%	3	<1%	66	7%	<b>908</b>
Black NH	261	54%	1	<1%	218	45%	<b>480</b>
Hispanic	131	31%	170	40%	125	29%	<b>426</b>
API	5	12%	0	0%	37	88%	<b>42</b>
<b>All Males</b>	<b>1,252</b>	<b>67%</b>	<b>174</b>	<b>9%</b>	<b>450</b>	<b>24%</b>	<b>1,876</b>

<sup>1</sup> Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers  
<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;  
<sup>3</sup> 94% of people diagnosed with HIV infection from 2001-2003 who were born in a US Dependency were born in Puerto Rico  
 NH = Non-Hispanic, API = Asian/Pacific Islander  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.22 Females Diagnosed with HIV Infection by Race/Ethnicity<sup>1</sup> and Place of Birth: MA, 2001-2003<sup>2</sup>***Data as of 7/1/04*

Race/Ethnicity:	US		Puerto Rico/US Dependency <sup>3</sup>		Non-US		Total
	N	%	N	%	N	%	N
White NH	163	92%	2	1%	12	7%	177
Black NH	158	39%	0	0%	252	61%	410
Hispanic	72	36%	86	43%	43	21%	201
API	1	6%	0	0%	15	94%	16
<b>All Females</b>	<b>403</b>	<b>50%</b>	<b>88</b>	<b>11%</b>	<b>323</b>	<b>40%</b>	<b>814</b>

<sup>1</sup> Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;<sup>3</sup> 94% of people diagnosed with HIV infection from 2001-2003 who were born in a US Dependency were born in Puerto Rico

NH = Non-Hispanic, API = Asian/Pacific Islander

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.23 People Diagnosed with HIV Infection by Race/Ethnicity<sup>1</sup> and Exposure Mode<sup>2</sup>: MA, 2001-2003<sup>3</sup>**

Exposure Mode:	White NH		Black NH		Hispanic		API	
	N	%	N	%	N	%	N	%
MSM	630	58%	86	10%	130	21%	13	22%
IDU	166	15%	110	12%	184	29%	-- <sup>4</sup>	-- <sup>4</sup>
MSM/IDU	41	4%	12	1%	8	1%	-- <sup>4</sup>	-- <sup>4</sup>
HTSX	77	7%	165	19%	130	21%	11	19%
Other	2	<1%	5	1%	1	<1%	-- <sup>4</sup>	-- <sup>4</sup>
Total								
Undetermined	169	15%	512	57%	174	28%	31	54%
Pres. HTSX <sup>5</sup>	101	9%	395	44%	120	19%	19	33%
Undetermined <sup>6</sup>	68	6%	117	13%	54	9%	12	21%
<b>Total</b>	<b>1,085</b>	<b>100%</b>	<b>890</b>	<b>100%</b>	<b>627</b>	<b>100%</b>	<b>58</b>	<b>100%</b>

<sup>1</sup> Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers<sup>2</sup> See Glossary for an explanation of exposure mode categories<sup>3</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;<sup>4</sup> Percentages calculated from a numerator of less than 5 and a denominator of less than 100 are not presented<sup>5</sup> Heterosexual sex with partners with unknown risk and HIV status<sup>6</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

NH = Non-Hispanic, API = Asian/Pacific Islander, MSM = Male-to-male sex, IDU = Injection Drug Use, HTSX = Heterosexual Sex, P. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.24 Males Diagnosed with HIV Infection by Race/Ethnicity<sup>1</sup> and Exposure Mode<sup>2</sup>: MA, 2001-2003<sup>3</sup>**

	White NH		Black NH		Hispanic		API	
Exposure Mode:	N	%	N	%	N	%	N	%
MSM	630	69%	86	18%	130	31%	13	31%
IDU	105	12%	80	17%	144	34%	-- <sup>4</sup>	-- <sup>4</sup>
MSM/IDU	41	5%	12	3%	8	2%	-- <sup>4</sup>	-- <sup>4</sup>
HTSX	29	3%	66	14%	48	11%	6	14%
Other	1	<1%	2	<1%	1	<1%	0	0%
Total								
Undetermined	102	12%	234	49%	95	22%	21	50%
Pres. HTSX <sup>5</sup>	51	6%	167	35%	60	14%	15	36%
Undetermined <sup>6</sup>	51	6%	67	14%	35	8%	6	14%
<b>Total</b>	<b>908</b>	<b>100%</b>	<b>480</b>	<b>100%</b>	<b>426</b>	<b>100%</b>	<b>42</b>	<b>100%</b>

<sup>1</sup> Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers<sup>2</sup> See Glossary for an explanation of exposure mode categories<sup>3</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;<sup>4</sup> Percentages calculated from a numerator of less than 5 and a denominator of less than 100 are not presented<sup>5</sup> Heterosexual sex with partners with unknown risk and HIV status<sup>6</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up  
NH = Non-Hispanic, API = Asian/Pacific Islander, MSM = Male-to-male sex, IDU = Injection Drug Use, HTSX = Heterosexual Sex, P. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.25 Females Diagnosed with HIV Infection by Race/Ethnicity<sup>1</sup> and Exposure Mode: MA, 2001-2003<sup>2</sup>**

	White NH		Black NH		Hispanic		API	
Exposure Mode <sup>3</sup> :	N	%	N	%	N	%	N	%
IDU	61	34%	30	7%	40	20%	-- <sup>4</sup>	-- <sup>4</sup>
HTSX	48	27%	99	24%	82	41%	5	31%
Other	1	1%	3	1%	0	0%	0	0%
Total								
Undetermined	67	38%	278	68%	79	39%	-- <sup>4</sup>	-- <sup>4</sup>
Pres. HTSX <sup>5</sup>	50	28%	228	56%	60	30%	-- <sup>4</sup>	-- <sup>4</sup>
Undetermined <sup>6</sup>	17	10%	50	12%	19	9%	6	38%
<b>Total</b>	<b>177</b>	<b>100%</b>	<b>410</b>	<b>100%</b>	<b>201</b>	<b>100%</b>	<b>16</b>	<b>100%</b>

<sup>1</sup> Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers<sup>2</sup> See Glossary for an explanation of exposure mode categories<sup>3</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis;<sup>4</sup> Percentages calculated from a numerator of less than 5 and a denominator of less than 100 are not presented

NH = Non-Hispanic, API = Asian/Pacific Islander, IDU = Injection Drug Use, HTSX = Heterosexual Sex, P. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.26 People Diagnosed with HIV Infection by Health Service Region<sup>1</sup> and Gender: MA, 2001-2003<sup>2</sup>**

Health Service Region:	Male		Female		Total
	N	%	N	%	N
Boston HSR	680	74%	236	26%	916
Central HSR	129	61%	82	39%	211
Metro West HSR	231	66%	117	34%	348
Northeast HSR	265	66%	136	34%	401
Southeast HSR	270	69%	123	31%	393
Western HSR	201	66%	104	34%	305
Prisons <sup>3</sup>	100	86%	16	14%	116
<b>MA Total</b>	<b>1,876</b>	<b>70%</b>	<b>814</b>	<b>30%</b>	<b>2,690</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence)

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>3</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

**Table 3.27 Percentage Distribution of People Diagnosed with HIV Infection by Health Service Region<sup>1</sup> and Race/Ethnicity: MA, 2001-2003<sup>2</sup>**

	White NH	Black NH	Hispanic	API	AI/AN	Total
Boston HSR	37%	42%	18%	1%	<1%	916
Central HSR	37%	29%	30%	3%	0%	211
Metro West HSR	41%	41%	14%	3%	0%	348
Northeast HSR	40%	30%	23%	6%	0%	401
Southeast HSR	62%	23%	13%	1%	1%	393
Western HSR	30%	18%	51%	<1%	0%	305
Prisons <sup>3</sup>	22%	33%	43%	0%	1%	116
<b>MA Total</b>	<b>37%</b>	<b>42%</b>	<b>18%</b>	<b>1%</b>	<b>0%</b>	<b>2,690</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence)

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>3</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04



**Table 3.28 Percent of People Diagnosed with HIV Infection by Health Service Region<sup>1</sup> and Exposure Mode<sup>2</sup>: MA 2001-2003<sup>3</sup>**

Health Service Region:	MSM	IDU	MSM/ IDU	HTSX	Other	Pres. HTSX	NIR	Total
Boston HSR	42%	11%	2%	13%	<1%	23%	9%	<b>916</b>
Central HSR	20%	22%	2%	19%	0%	28%	8%	<b>211</b>
Metro West HSR	29%	9%	1%	14%	1%	31%	16%	<b>348</b>
Northeast HSR	32%	11%	2%	15%	<1%	28%	11%	<b>401</b>
Southeast HSR	32%	21%	4%	15%	<1%	19%	8%	<b>393</b>
Western HSR	25%	30%	2%	17%	<1%	17%	9%	<b>305</b>
Prison <sup>4</sup>	7%	59%	3%	9%	0%	18%	3%	<b>116</b>
<b>MA Total</b>	<b>32%</b>	<b>17%</b>	<b>2%</b>	<b>14%</b>	<b>&lt;1%</b>	<b>24%</b>	<b>10%</b>	<b>2690</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence)

<sup>2</sup> See the Glossary for an explanation of Exposure Mode categories. MSM = male-to-male sex; IDU = injection drug use; MSM/IDU = male-to-male sex and injection drug use; HTSX = heterosexual sex; Pres. HTSX = presumed heterosexual; NIR = No Identified Risk

<sup>3</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>4</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 7/1/04

## **Profile of people testing for HIV at publicly-funded sites**

### Technical Notes:

Program utilization data for HIV/AIDS prevention services describe people who utilize these services and who may be at risk for HIV infection. In particular, data from HIV testing programs can be used to describe demographics and HIV risk behavior in a population. The following tables contain data on clients utilizing state-funded counseling and testing sites. These settings include community health centers, hospitals, jails, and sexually transmitted disease clinics. An estimated 30% of people who get tested for HIV in Massachusetts get tested at one of these sites; therefore, these data are not representative of all people testing for HIV infection in Massachusetts. It is important to note that the data presented in this section represent tests performed and not individual clients; therefore the data may contain more than one test for some people.

<b>Table 3.29 Number and Percent of Positive HIV Tests<sup>1</sup> by Gender, Race/Ethnicity, Age of Client and Risk Category: MA, 2003</b>			
<b>HIV Tests by Gender of Client:</b>	<b>Total Tests</b>	<b>Total Positive Results</b>	<b>Percent Positive</b>
Male	26,354	301	1.1%
Female	15,690	143	0.9%
Unknown <sup>2</sup>	389	5	1.3%
<b>HIV Tests by Race/Ethnicity of Client:</b>	<b>Total Tests</b>	<b>Total Positive Results</b>	<b>Percent Positive</b>
White	17,886	106	0.6%
African-American	7,895	122	1.5%
Latino	10,861	135	1.2%
Asian/Asian-American	855	6	0.7%
American Indian/Aleutian/Eskimo	150	0	0.0%
Haitian	973	32	3.3%
Brazilian	895	17	1.9%
Portuguese	691	7	1.0%
Cape Verdean	683	3	0.4%
Other	962	17	1.8%
Unknown <sup>2</sup>	582	4	0.7%
<b>HIV Tests by Age of Client, in Years:</b>	<b>Total Tests</b>	<b>Total Positive Results</b>	<b>Percent Positive</b>
Under 13	50	1	2.0%
13 to 19	3,317	5	0.2%
20 to 24	9,465	36	0.4%
25 to 29	7,704	50	0.6%
30 to 34	5,967	81	1.4%
35 to 39	5,264	90	1.7%
40 to 44	4,226	73	1.7%
45 to 49	2,899	62	2.1%
50+	2,861	40	1.4%
Unknown <sup>2</sup>	680	11	1.6%
<b>HIV Tests by Risk Category<sup>3</sup>:</b>	<b>Total Tests</b>	<b>Total Positive Results</b>	<b>Percent Positive</b>
Male-to-male sex (MSM)	3,779	113	3.0%
MSM/IDU	167	5	3.0%
Injecting Drug User (IDU)	5,793	74	1.3%
Heterosexual Sex (HTSX)	30,059	208	0.7%
Other/No Identified Risk	2,635	49	1.9%
<b>Total</b>	<b>42,433</b>	<b>449</b>	<b>1.1%</b>
<sup>1</sup> Tests performed at publicly funded HIV counseling and testing sites. (People also test for HIV at non-publicly funded sites for whom data are not represented in this table); <sup>2</sup> Unknown indicates that the data were missing or unreadable <sup>3</sup> Data collected on possible exposure on the C&T report form were aggregated using the CDC risk hierarchy in order to make these data more comparable to the HIV/AIDS case data. Data Source: MDPH HIV/AIDS Bureau HIV Counseling and Testing Program. Data as of 7/1/04			

## Technical Notes:

The following tables include behavioral data about number of sexual partners and condom use as reported by Massachusetts residents through anonymous telephone interviews in 2002. This ongoing random-digit-dial telephone survey, the Behavioral Risk Factor Surveillance Survey (BRFSS), covers a broad range of topic areas (including sexually-related risk) and is part of a CDC-funded national survey program.

Sex with multiple partners has historically been correlated with other predictors of HIV transmission. Reducing numbers of sexual partners has been an HIV/STD prevention intervention goal as has increasing condom use. Data regarding the prevalence of each of these behaviors follows.

<b>Table 3.30 Number of Sexual Partners in Past Year<sup>1</sup> among Adults Ages 18-64 Years: MA, 2002</b>				
	<b>0 Partners</b>	<b>1 Partner</b>	<b>2 + Partners</b>	<b>N<sup>2</sup></b>
<b>Total:</b>	17%	75%	7%	2,498
<b>Age in Years:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2 + Partners</b>	<b>N</b>
18-24	20%	60%	19%	249
25-34	9%	82%	9%	594
35-44	12%	82%	6%	677
45-64	25%	72%	2%	978
<b>Sex:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2 + Partners</b>	<b>N</b>
Male	15%	75%	9%	1,110
Female	20%	75%	5%	1,388
<b>Race/Ethnicity:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2 + Partners</b>	<b>N</b>
White NH	16%	76%	7%	1,995
Black NH	23%	71%	6%	121
Hispanic	17%	72%	11%	248
Asian	31%	65%	4%	76
NH= Non-Hispanic <sup>1</sup> "Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents. <sup>2</sup> Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing values. Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2002				

<b>Table 3.31 Number of Sexual Partners in the Past Year<sup>1</sup>, Males Ages 18-64: MA, 2002</b>				
	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N<sup>2</sup></b>
<b>Total Males</b>	15%	75%	9%	1,110
<b>Age in Years:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N</b>
18-24	19%	55%	26%	101
25-34	13%	78%	9%	273
35-44	10%	82%	8%	291
45-64	20%	76%	4%	445
<b>Race/Ethnicity:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N</b>
White NH	15%	76%	10%	912
Black NH	15%	78%	7%	49
Hispanic	12%	77%	11%	85
Asian	30%	65%	4%	42
<b>Sex of Partner<sup>3</sup>:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N</b>
Same Sex	N/A	49%	51%	49
Opposite Sex	N/A	91%	9%	856
NH= Non-Hispanic <sup>1</sup> "Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents. <sup>2</sup> Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing values. <sup>3</sup> Only asked of sexually active adults Data source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2002				

<b>Table 3.32 Number of Sexual Partners in the Past Year<sup>1</sup>, Females Ages 18-64 MA, 2002</b>				
	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N<sup>2</sup></b>
<b>Total Females</b>	20%	75%	5%	1,388
<b>Age in Years:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N</b>
18-24	22%	65%	13%	148
25-34	6%	86%	9%	321
35-44	14%	82%	4%	386
45-64	31%	68%	1%	533
<b>Race/Ethnicity:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N</b>
White NH	18%	77%	5%	1083
Black NH	32%	64%	4%	72
Hispanic	20%	68%	11%	163
Asian	31%	65%	4%	34
<b>Sex of Partner<sup>3</sup>:</b>	<b>0 Partners</b>	<b>1 Partner</b>	<b>2+ Partners</b>	<b>N</b>
Same sex	N/A	94%	6%	26
Opposite sex	N/A	94%	6%	1023
NH= Non-Hispanic <sup>1</sup> "Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents. <sup>2</sup> Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing values. <sup>3</sup> Only asked of sexually active adults Data source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2002				

<b>Table 3.33 Condom Use At Last Sexual Encounter, Adults Ages 18-64<sup>1</sup>: MA, 2002</b>		
	<b>% Used Condom</b>	<b>Total N<sup>2</sup></b>
<b>Total:</b>	24%	1,985
<b>Sex:</b>	<b>% Used Condom</b>	<b>Total N</b>
Male	26%	926
Female	22%	1,059
<b>Race/Ethnicity:</b>	<b>% Used Condom</b>	<b>Total N</b>
White NH	22%	1,606
Black NH	20%	86
Hispanic	33%	194
Asian	43%	53
Other	31%	33
<b>Number of Partners:</b>	<b>% Used Condom</b>	<b>Total N</b>
1	21%	1,765
2	49%	113
3+	54%	83
<b>Sex of Partner:</b>	<b>% Used Condom</b>	<b>Total N</b>
Same Sex – Male	40%	53
Opposite Sex – Male	25%	866
Same Sex – Female	2%	27
Opposite Sex – Female	22%	1,028
NH= Non-Hispanic <sup>1</sup> Only asked of sexually active adults <sup>2</sup> Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing values. Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2002		

<b>Table 3.34 Ever Tested for HIV, Adults Age 18-64: MA, 1993 – 2002</b>		
<b>Year:</b>	<b>Total N<sup>1</sup></b>	<b>% Ever Tested for HIV</b>
1993	1,530	27%
1994	2,709	30%
1995	2,758	37%
1996	2,504	39%
1997	3,035	46%
1998	3,995	42%
1999	6,128	46%
2000	6,804	48%
2001	7,113	47%
2002	5,618	47%
<sup>1</sup> This question was one of the core federal questions posed to all respondents to the annual BRFSS between the ages of 18-64. Respondents with missing values for this item were not included in this table. Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 1993-2002		

<b>Table 3.35 Ever Tested for HIV by Number of Sexual Partners in Past Year<sup>1</sup>, Adults Age 18-64: MA, 2002</b>		
	<b>Total N<sup>2</sup></b>	<b>% Ever Tested for HIV</b>
<b>Total:</b>	2,980	48%
<b>Number of Partners:</b>	<b>Total N</b>	<b>% Ever Tested for HIV</b>
0	519	35%
1	1,722	51%
2	111	58%
3+	82	70%
<sup>1</sup> "Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents. <sup>2</sup> Total number of participants that responded to both number of sexual partners and ever tested for HIV. Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2002		